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                              GenCore version 4.5
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OM protein - protein search, using sw model

Run on:           August 28, 2002, 17:39:04 ; Search time 79.38 Seconds
                                                (without alignments)
                                                759.267 Million cell updates/sec

Title:            US-09-502-984B-37
Perfect score:    1284
Sequence:         1 KFESKAALLAARGPEELLCF..........RKNERLEEEVERLKQLVGER 249
Scoring table:    BLOSUM62
Score:            Gapop 10.0 , Gapext 0.5
Searched:         747981 seqs, 242050750 residues

Total number of hits satisfying chosen parameters:    747981

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       Pending_Patents_AA_New:*
                 1: /cgn2_6/ptodata/1/paa/PCT_NEW_COMB.pep:*
                 2: /cgn2_6/ptodata/1/paa/US06_NEW_COMB.pep:*
                 3: /cgn2_6/ptodata/1/paa/US07_NEW_COMB.pep:*
                 4: /cgn2_6/ptodata/1/paa/US08_NEW_COMB.pep:*
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                 6: /cgn2_6/ptodata/US10_NEW_COMB.pep:*
                 7: /cgn2_6/ptodata/1/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.


                                        SUMMARIES

Result           %
NO.    Score  Query Match Length DB  ID                 Description
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  1    1284   100.0   249    5    US-09-502-984B-37   Sequence 37, Appl
  2    1098    85.5   211    5    US-09-502-984B-6    Sequence 6, Appli
  3    1080    84.1   211    5    US-09-502-984B-5    Sequence 5, Appli
  4    1078    84.0   211    5    US-09-502-984B-4    Sequence 4, Appli
  5    1075    83.7   211    5    US-09-502-984B-9    Sequence 9, Appli
  6    1073    83.6   211    5    US-09-502-984B-13   Sequence 13, Appl
  7    1073    83.6   211    5    US-09-502-984B-14   Sequence 14, Appl
  8    1073    83.6   211    5    US-09-502-984B-15   Sequence 15, Appl
  9    1070    83.3   211    5    US-09-502-984B-7    Sequence 7, Appli
 10    1070    83.3   211    5    US-09-502-984B-17   Sequence 17, Appl
 11    1066    83.0   211    5    US-09-502-984B-16   Sequence 16, Appl
 12    1064    82.9   211    5    US-09-502-984B-12   Sequence 12, Appl
 13    1061    82.6   211    5    US-09-502-984B-2    Sequence 2, Appli
 14    1060    82.6   211    5    US-09-502-984B-10   Sequence 10, Appl
 15    1060    82.6   211    5    US-09-791-537-86927 Sequence 86927, A
 16    1060    82.6   211    5    US-09-791-537-67299 Sequence 67299, A
 17    1060    82.6   215    5    US-09-791-537-105911 Sequence 105911,
 18    1060    82.6   215    5    US-09-502-984B-1    Sequence 1, Appli
 19    1060    82.6   225    5    US-09-502-984B-11   Sequence 11, Appl
 20    1060    82.6   508    5    US-09-791-537-99806 Sequence 99806, A
 21  1059.5    82.5   212    5    US-09-502-984B-3    Sequence 3, Appli
 22    1053    82.0   211    5    US-09-502-984B-8    Sequence 8, Appli
 23    1048    81.6   211    5    US-09-502-984B-18   Sequence 18, Appl
 24    1043    81.2   227    5    US-09-791-537-68105 Sequence 68105, A
 25    1043    81.2   228    5    US-09-791-537-38134 Sequence 38134, A
 26    1039    80.9   211    5    US-09-502-984B-19   Sequence 19, Appl
 27    1034    80.5   211    5    US-09-502-984B-20   Sequence 20, Appl
 28    1025    79.8   211    5    US-09-502-984B-21   Sequence 21, Appl
 29    1025    79.8   211    5    US-09-502-984B-24   Sequence 24, Appl
 30    1024    79.8   211    5    US-09-502-984B-5    Sequence 25, Appl
 31    1022    79.6   211    5    US-09-502-984B-23   Sequence 23, Appl
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 33    1020    79.4   211    5    US-09-502-984B-26   Sequence 26, Appl
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 35    1009    78.6   211    5    US-09-502-984B-27   Sequence 27, Appl
 36     997    77.6   211    5    US-09-502-984B-29   Sequence 29, Appl
 37     888    69.2   316    5    US-09-791-537-55613 Sequence 55613, A
 38   877.5    68.3   507    5    US-09-791-537-9845  Sequence 9845, Ap
 39   875.5    68.2   265    5    US-09-791-537-4913  Sequence 4913, Ap
 40   869.5    67.7   507    5    US-09-791-537-1440  Sequence 1440, Ap
 41   869.5    67.7   507    5    US-09-791-537-126514 Sequence 126514,
 42     782    60.9   229    5    US-09-791-537-40030 Sequence 40030, A
 43     778    60.6   229    5    US-09-791-537-40031 Sequence 40031, A
 44     771    60.0   625    6    US-10-099-895-34    Sequence 34, Appl
 45     168    13.1    56    6    US-10-206-002-710   Sequence 710, App
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ALIGNMENTS

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RESULT    1
US-09-502-984B-37
Sequence 37, Application US/09502984B
; GENERAL INFORMATION:
;   APPLICANT: Luo, Peizhi
;   TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
;   FILE REFERENCE: A-68126-1/RFT/RMS/RMK
;   CURRENT APPLICATION NUMBER: US-09/502,984B
;   CURRENT FILING DATE: 2000-02-11
;   PRIOR APPLICATION NUMBER: 60/120,009
;   PRIOR FILING DATE: 1999-02-11
;   PRIOR APPLICATION NUMBER: 60/131,674
;   PRIOR FILING DATE: 1999-04-29
;   NUMBER OF SEQ ID NOS: 37
;   SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 37
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-502-984B-37

Query Match             100.0%;  Score 1284;  DB 5;  Length 249;
Best Local Similarity   100.0%;  Pred. No. 1.4e-108;
Matches   249;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
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Db      1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60

Qy     61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy    121 RLLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 RLLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180

Qy    181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLTGGGGSRMEKLEQKVKELLRKNERLEEEVE 240
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Db    181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLTGGGGSRMEKLEQKVKELLRKNERLEEEVE 240

Qy    241 RLKQLVGER 249
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Db    241 RLKQLVGER 249
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RESULT 2
US-09-502-984B-6
; Sequence 6, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC

US-09-502-984B-6

Query Match   85.5%; Score 1098; DB 5; Length 211;
Best Local Similarity   100.0%; Pred. No. 8.7e-92;
Matches 211; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Db   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60

Qy   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180

Qy 181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
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Db 181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211

RESULT 3
US-09-502-984B-5
; Sequence 5, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC

US-09-502-984B-5

Query Match   84.1%; Score 1080; DB 5; Length 211;
Best Local Similarity   97.2%; Pred. No. 3.8e-90;
Matches 205; Conservative   6; Mismatches   0; Indels   0; Gaps   0;

Qy   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60

Qy   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180

Qy 181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
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Db 181 TRYTFAVRARMAEPSFGGFWSAWSEPVSLLT 211

RESULT 4
US-09-502-984B-4
; Sequence 4, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC

US-09-502-984B-4

Query Match   84.0%; Score 1078; DB 5; Length 211;
Best Local Similarity   96.7%; Pred. No. 5.7e-90;
Matches 204; Conservative   5; Mismatches   2; Indels   0; Gaps   0;

Qy   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
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Db   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNYSFSYQLEDEPWKLCRL 60

Qy   61 HQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
        |||||||||:|||||||||||||||||||:|||||||||||||||||||||||||||||
Db   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180

Qy 181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
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Db 181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211

RESULT 5
US-09-502-984B-9
; Sequence 9, Application US/09502984B
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11

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                  PRIOR APPLICATION NUMBER: 60/131,674
                  PRIOR FILING DATE: 1999-04-29
                  NUMBER OF SEQ ID NOS: 37
                  SOFTWARE: PatentIn Ver. 2.1
                  SEQ ID NO 9
                  LENGTH: 211
                  TYPE: PRT
                  ORGANISM: Artificial Sequence
                  FEATURE:
                  OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
                  US-09-502-984B-9

Query Match      83.7%;   Score 1075;   DB 5;   Length 211;
Best Local Similarity   96.2%;   Pred. No. 1.1e-89;
Matches 203;   Conservative   6;   Mismatches   2;   Indels   0;   Gaps   0;

Qy     1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60

Qy    61 HQAPTARGAIRFWCSLPTPADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 HQAPTARGAIRFWCSLPTPADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy   121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
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Db   121 RLADESGHVVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGR 180

Qy   181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
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Db   181 TRYTFAVRARMAEPSFGGFWSAWSEPVSLLT 211


RESULT  6
US-09-502-984B-13
Sequence 13, Application US/09502984B
GENERAL INFORMATION:
   APPLICANT: Luo, Peizhi
   TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
   FILE REFERENCE: A-68126-1/RFT/RMS/RMK
   CURRENT APPLICATION NUMBER: US/09/502,984B
   CURRENT FILING DATE: 2000-02-11
   PRIOR APPLICATION NUMBER: 60/120,009
   PRIOR FILING DATE: 1999-02-11
   PRIOR APPLICATION NUMBER: 60/131,674
   PRIOR FILING DATE: 1999-04-29
   SOFTWARE: PatentIn Ver. 2.1
   NUMBER OF SEQ ID NOS: 37
   SEQ ID NO 13
   LENGTH: 211
   TYPE: PRT
   ORGANISM: Artificial Sequence
   FEATURE:
   OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
   US-09-502-984B-13

Query Match      83.6%;   Score 1073;   DB 5;   Length 211;
Best Local Similarity   96.2%;   Pred. No. 1.6e-89;
Matches 203;   Conservative   6;   Mismatches   2;   Indels   0;   Gaps   0;

Qy     1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
         |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60

Qy    61 HQAPTARGAIRFWCSLPTPADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 HQAPTARGAIRFWCSLPTPADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy   121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
         |||||||||:||||||||||||||:||||||||||||||||||:||||||||||||||
Db   121 RLADESGHVVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGR 180

Qy   181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
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Db   181 TRYTFAVRARMAEPSFGGFWSAWSEPVSLLT 211
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RESULT  7
US-09-502-984B-14
Sequence 14, Application US/09502984B
GENERAL INFORMATION:
   APPLICANT: Luo, Peizhi
   TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
   FILE REFERENCE: A-68126-1/RFT/RMS/RMK
   CURRENT APPLICATION NUMBER: US/09/502,984B
   CURRENT FILING DATE: 2000-02-11
   PRIOR APPLICATION NUMBER: 60/120,009
   PRIOR FILING DATE: 1999-02-11
   PRIOR APPLICATION NUMBER: 60/131,674
   PRIOR FILING DATE: 1999-04-29
   SOFTWARE: PatentIn Ver. 2.1
   NUMBER OF SEQ ID NOS: 37
   SEQ ID NO 14
   LENGTH: 211
   TYPE: PRT
   ORGANISM: Artificial Sequence
   FEATURE:
   OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
   US-09-502-984B-14

Query Match      83.6%;   Score 1073;   DB 5;   Length 211;
Best Local Similarity   96.2%;   Pred. No. 1.6e-89;
Matches 203;   Conservative   6;   Mismatches   2;   Indels   0;   Gaps   0;

Qy     1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
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Db     1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60

Qy    61 HQAPTARGAIRFWCSLPTPADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    61 HQAPTARGAIRFWCSLPTPADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy   121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
         |||||||||:||||||||||||||:||||||||||||||||||:||||||||||||||
Db   121 RLADESGHVVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGR 180

Qy   181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
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Db   181 TRYTFAVRARMAEPSFGGFWSAWSEPVSLLT 211


RESULT  8
US-09-502-984B-15
Sequence 15, Application US/09502984B
GENERAL INFORMATION:
   APPLICANT: Luo, Peizhi
   TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
   FILE REFERENCE: A-68126-1/RFT/RMS/RMK
   CURRENT APPLICATION NUMBER: US/09/502,984B
   CURRENT FILING DATE: 2000-02-11
   PRIOR APPLICATION NUMBER: 60/120,009
   PRIOR FILING DATE: 1999-02-11
   PRIOR APPLICATION NUMBER: 60/131,674
   PRIOR FILING DATE: 1999-04-29
   SOFTWARE: PatentIn Ver. 2.1
   NUMBER OF SEQ ID NOS: 37
   SEQ ID NO 15
   LENGTH: 211
   TYPE: PRT
   ORGANISM: Artificial Sequence
   FEATURE:
   OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
   US-09-502-984B-15
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RESULT 9
US-09-502-984B-7
Sequence 7, Application US/09502984B
GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 7
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-7

Query Match   96.2%; Score 1073; DB 5; Length 211;
Best Local Similarity 96.2%; Pred. No. 1.6e-89;
Matches 203; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
        |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db   1 KFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60

Qy 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
        |||||||||| |||||||||||||||:|:|:|||||||||||||:|||||||||||||||
Db 121 RLADESGHVVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGR 180

Qy 181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
        || | ||||||||||||||||||||||||||
Db 181 TRYTFAVRARMAEPSFGGFWSAWSEPVSLLT 211

Query Match   95.7%; Score 1070; DB 5; Length 211;
Best Local Similarity 95.7%; Pred. No. 3.1e-89;
Matches 202; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
        |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db   1 KFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60

Qy 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
        |||||||||| |||||||||||||||:|:|:|||||||||||||:|||||||||||||||
Db 121 RLADESGHVVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGR 180

Qy 181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
        || | ||||||||||||||||||||||||||
Db 181 TRYTFAVRARMAEPSFGGFWSAWSEPVSLLT 211

RESULT 10
US-09-502-984B-17
Sequence 17, Application US/09502984B
GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi

; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 17
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-17

Query Match   83.8%; Score 1070; DB 5; Length 211;
Best Local Similarity 94.3%; Pred. No. 3.1e-89;
Matches 199; Conservative 12; Mismatches 0; Indels 0; Gaps 0;

Qy   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
        ||||||||||||||||||||||||||||||:|||||||||||||||||||||||||||||
Db   1 KFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGNFSFSYQLEDEPWKLCRL 60

Qy 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
        |||||||||:|||||||||||||||||||||||||||||||||||||||||||||:||||
Db 61 HQAPTARGAVRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

Qy 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
        |||||||||| ||||||||||||||:|:|:|||||||||||||:|||||||||||||||
Db 121 RLADESGHVIRWLPPPETPMTSHIRFEIDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180

Qy 181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
        ||| | |||||||||||||||||||||||||
Db 181 TRITLAIRARMAEPSFGGFWSAWSEPVSLLT 211

RESULT 11
US-09-502-984B-16
Sequence 16, Application US/09502984B
GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi

; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 16
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-16

Query Match   83.0%; Score 1066; DB 5; Length 211;
Best Local Similarity 93.8%; Pred. No. 7e-89;
Matches 198; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

Qy   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
        ||||||||||||||||||||||||||||||:|||||||||||||||||||||||||||||
Db   1 KFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGNFSFSYQLEDEPWKLCRL 60

Qy 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120

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Db   61 HQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVGIVV 120
         ||||||||:|||||||||||||||||||||:|||||||:|||||||||||||||||||:|
Qy  121 RLADESGHVVIRWLPPPETPMTSHIRFEIDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
         |||||||::||||||||||||||||||||||||||||||||||:|||||||||||||||
Db  121 RLADESGHVIRWLPPPETPMTSHIRFEIDISAGNGAGSVQRVEILEGRTECVLSNLRGR 180
Qy  181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
         |||||::|||||||||||||||||||||||
Db  181 TRITIAIRARMAEPSFGGFWSAWSEPVSLLT 211
```

RESULT 12
US-09-502-984b-11
Sequence 11, Application US/09502984B
GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984b-11

Query Match   82.9%; Score 1064; DB 5; Length 211;
Best Local Similarity   94.3%; Pred. No. 1.1e-88;
Matches 199; Conservative 10; Mismatches 2; Indels 0; Gaps 0;

```
Qy    1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
         |||||||||||||||||||||||||||||:|||||||||||||:||||:|||||||||||
Db    1 KFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGNYSFSYQLEDEPWKLCRL 60
Qy   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
         ||||||||:|||||||||||||||||||||:|||||||:|||||||||||||||||||||
Db   61 HQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVGLVA 120
Qy  121 RLADESGHVVIRWLPPPETPMTSHIRFEIDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
         |||||||::||||||||||||||||||:|:|||||||||||||:|||||||||||||||
Db  121 RLADESGHVVLRWLPPPETPMTSHIRWELDISAGNGAGSVQRVEILEGRTECVLSNLRGR 180
Qy  181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
         ||:|:||||||||||||||||||||||:||
Db  181 TRYTFAVRARMAEPSFGGFWSAWSEPVSFLT 211
```

RESULT 13
US-09-502-984b-12
Sequence 12, Application US/09502984B
GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-12

Query Match   82.6%; Score 1061; DB 5; Length 211;
Best Local Similarity   94.3%; Pred. No. 2e-88;
Matches 199; Conservative 10; Mismatches 2; Indels 0; Gaps 0;

```
Qy    1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
         |||||||||||||||||||||||||||||:|||||||||||||:||||:|||||||||||
Db    1 KFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGNYSFSYQLEDEPWKLCRL 60
Qy   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
         ||||||||:|||||||||||||||||||||:|||||||:|||||||||||||||||||||
Db   61 HQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVGLVA 120
Qy  121 RLADESGHVVIRWLPPPETPMTSHIRFEIDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
         |||||||::||||||||||||||||:|:||||||||||||||:||||||||||||||||
Db  121 RLADESGHVLRWLPPPETPMTSHIRWELDISAGNGAGSVQRVEILEGRTECVLSNLRGR 180
Qy  181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
         ||:|:||||||||||||||||||||||:||
Db  181 TRYTFAVRARMAEPSFGGFWSAWSEPVSFLT 211
```

RESULT 14
US-09-502-984B-2
Sequence 2, Application US/09502984B
GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984B
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-502-984B-2

Query Match   82.6%; Score 1060; DB 5; Length 211;
Best Local Similarity   93.8%; Pred. No. 2.5e-88;
Matches 198; Conservative 11; Mismatches 2; Indels 0; Gaps 0;

```
Qy    1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
         |||||||||||||||||||||||||||||:|||||||||||||:||||:|||||||||||
Db    1 KFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGNYSFSYQLEDEPWKLCRL 60
Qy   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
         ||||||||:|||||||||||||||||||||:|||||||:|||||||||||||||||||||
Db   61 HQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVGLVA 120
Qy  121 RLADESGHVVIRWLPPPETPMTSHIRFEIDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
         |||||||::||||||||||||||||:|:|:||||||||||||:||||||||||||||||
Db  121 RLADESGHVVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGR 180
Qy  181 TRITIAVRARMAEPSFGGFWSAWSEPVSLLT 211
         ||:|:||||||||||||||||||||||:||
Db  181 TRYTFAVRARMAEPSFGGFWSAWSEPVSFLT 211
```

RESULT 15

US-09-502-984B-10
; Sequence 10, Application US/09502984B
; GENERAL INFORMATION:
;   APPLICANT: Luo, Peizhi
;   TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
;   FILE REFERENCE: A-68126-1/RFT/RMS/RMK
;   CURRENT APPLICATION NUMBER: US/09/502,984B
;   CURRENT FILING DATE: 2000-02-11
;   PRIOR APPLICATION NUMBER: 60/120,009
;   PRIOR FILING DATE: 1999-02-11
;   PRIOR APPLICATION NUMBER: 60/131,674
;   PRIOR FILING DATE: 1999-04-29
;   NUMBER OF SEQ ID NOS: 37
;   SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
;   LENGTH: 211
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984B-10

Query Match   82.6%; Score 1060; DB 5; Length 211;
Best Local Similarity   93.8%; Pred. No. 2.5e-88;
Matches 198; Conservative 11; Mismatches 2; Indels 0; Gaps 0;

Qy   1 KFESKAALLAARGPEELLCFTERLEDLVCFFEEAASAGVGPGNFSFSFQLEDEPWKLCRL 60
         |||||||||||||||||||||||||||||:||:|||||||||||||||||||||||||||
Db   1 KFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGNYSFSYQLEDEPWKLCRL 60

Qy   61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRVIHINEVVLLDAPVGLVA 120
         ||||||||:||||||||||||||||:||||:|:||||||:|:||||||||||||||||||
Db   61 HQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVGLVA 120

Qy 121 RLADESGHVVIRWLPPPETPMTSHIRFELDISAGNGAGSVQRVELLEGRTECVLSNLRGR 180
         ||||||||:|||||||||||||:|||||:|:|||||||||:||||||||||||||||||
Db 121 RLADESGHVVLRWLPPPETPMTSHIRWEIDISAGNGAGSVQRVEILEGRTECVLSNLRGR 180

Qy 181 TRTTIAVRARMAEPSFGGFWSAWSEPVSLLT 211
         ||:||||||||||||||||||||||||| ||
Db 181 TRFTVAVRARMAEPSFGGFWSAWSEPVSFLT 211

Search completed: August 28, 2002, 17:39:04
Job time: 550 sec